

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P482790

Luminaire Tested: **IFLD-L-SA8C-730-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482790
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

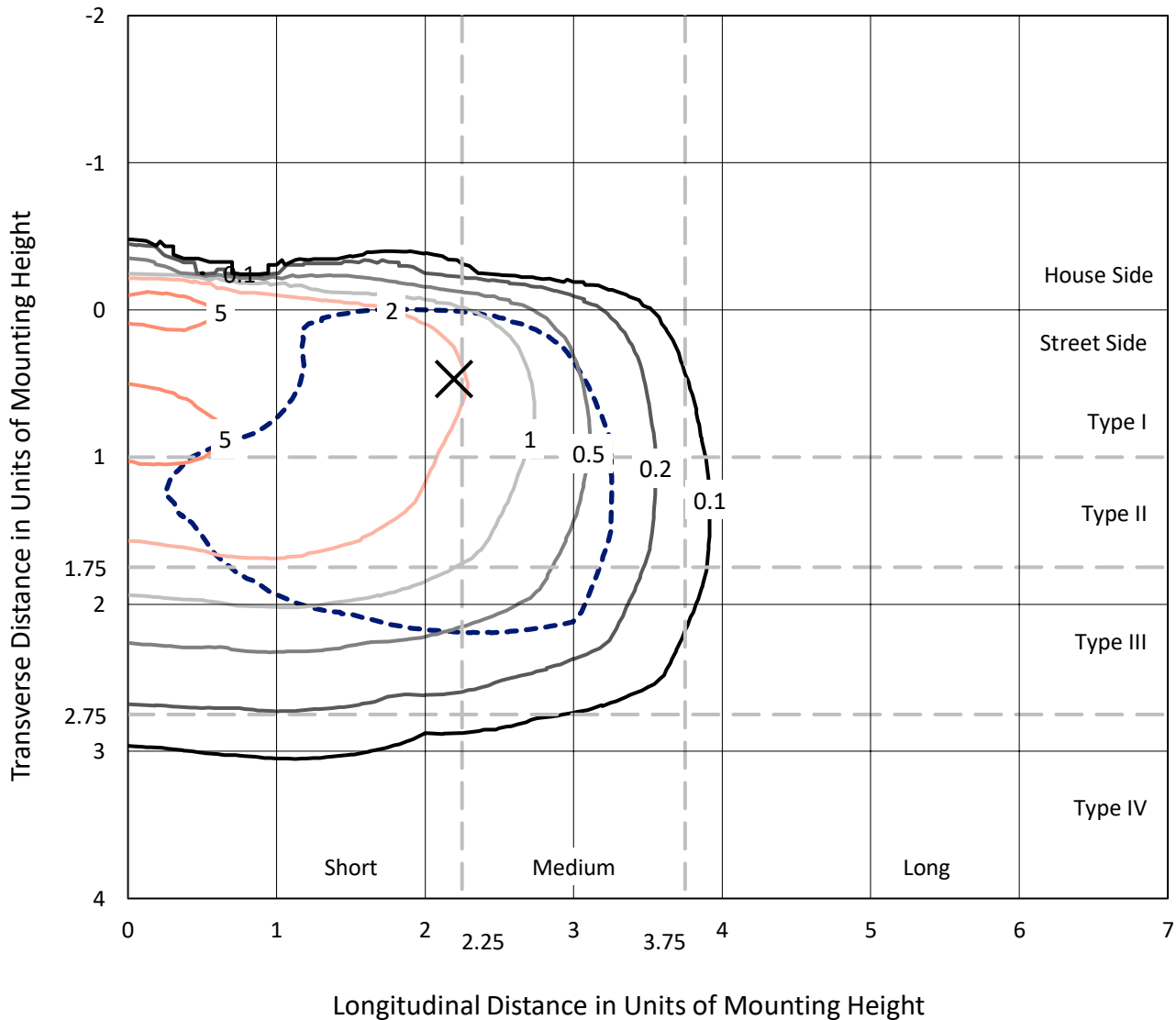
Lumens per Lamp: N/A
Luminaire Lumens: 33070.2 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

REPORT NUMBER: P482790
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

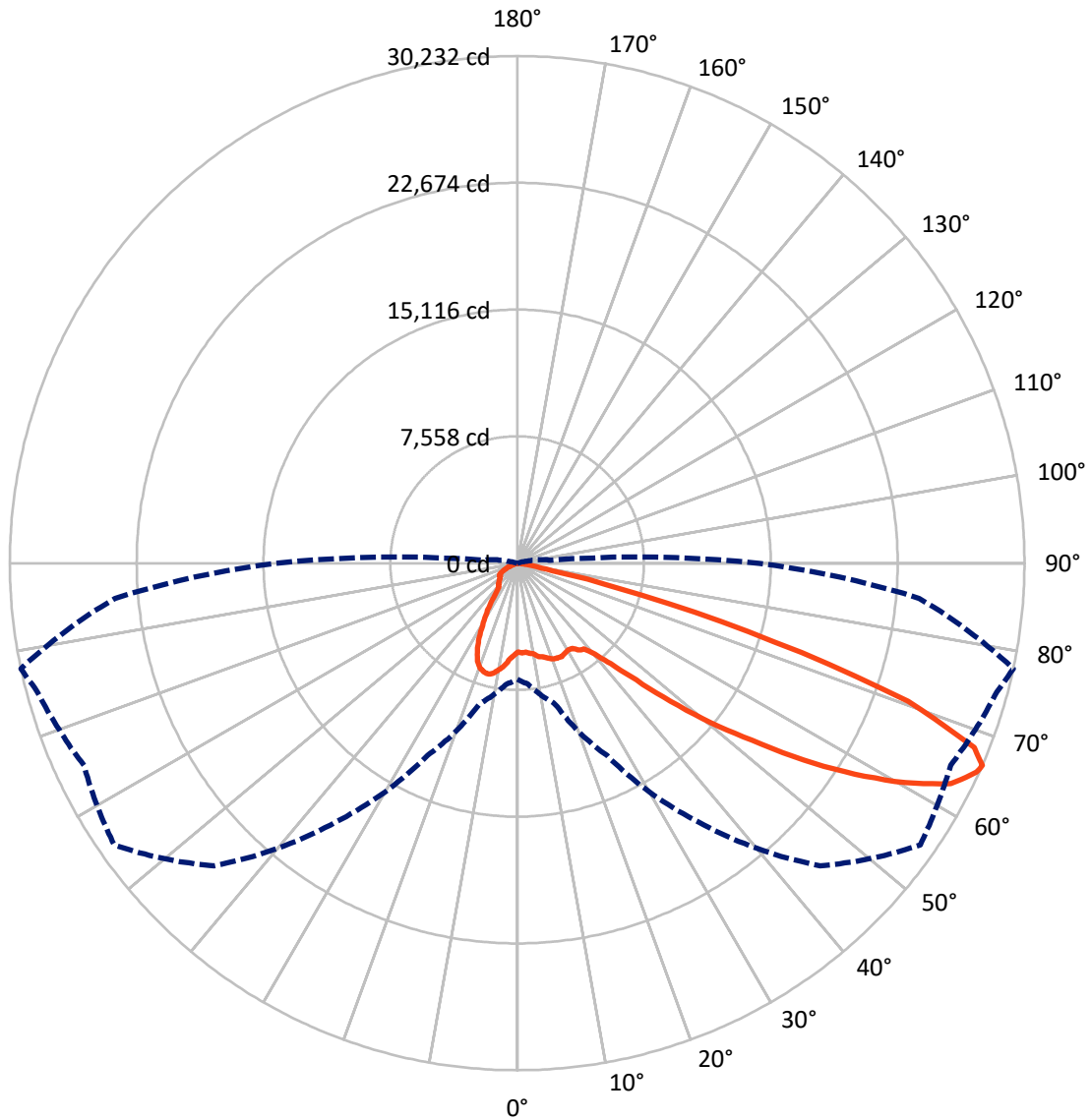
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - N/A

REPORT NUMBER: P482790
CATALOG NUMBER: IFLD-L-SA8C-730-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P482790
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3R-HSS

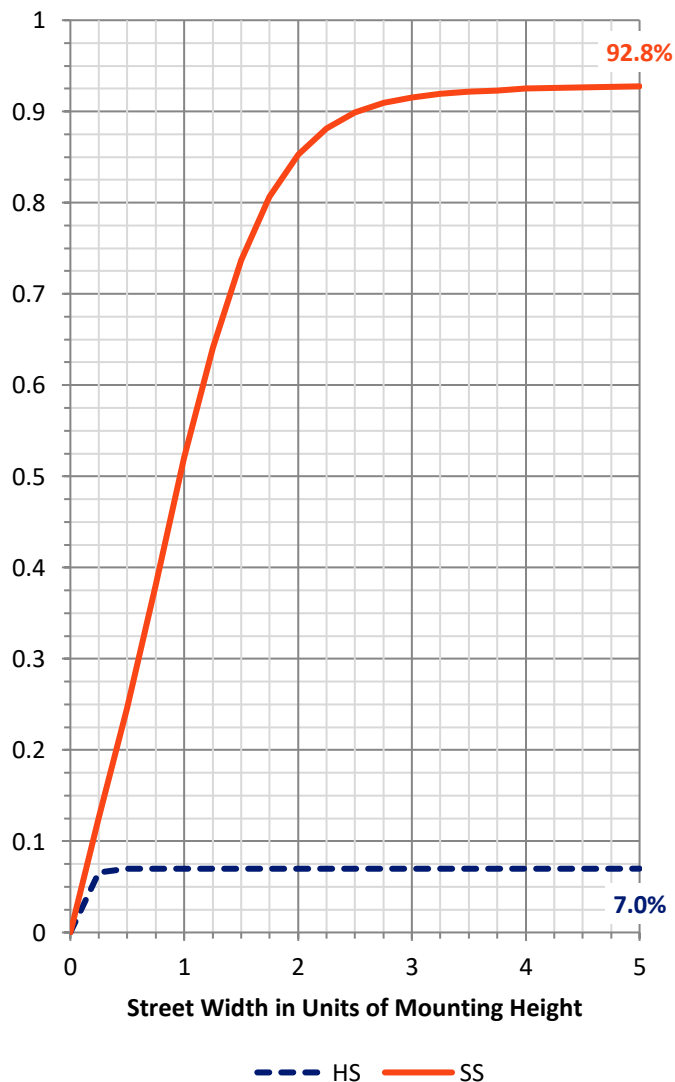
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2325.0	0.0	2325.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	30745.2	0.0	30745.2
	% Fixture	93.0	0.0	93.0
Total	Lumens	33070.2	0.0	33070.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	1.5
10°-20°	1093.9	3.3
20°-30°	1563.5	4.7
30°-40°	2676.3	8.1
40°-50°	4830.3	14.6
50°-60°	8260.5	25.0
60°-70°	10167.2	30.7
70°-80°	3843.8	11.6
80°-90°	150.1	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33070.2	100.0
0°-180°	33070.2	100.0

Coefficient of Utilization

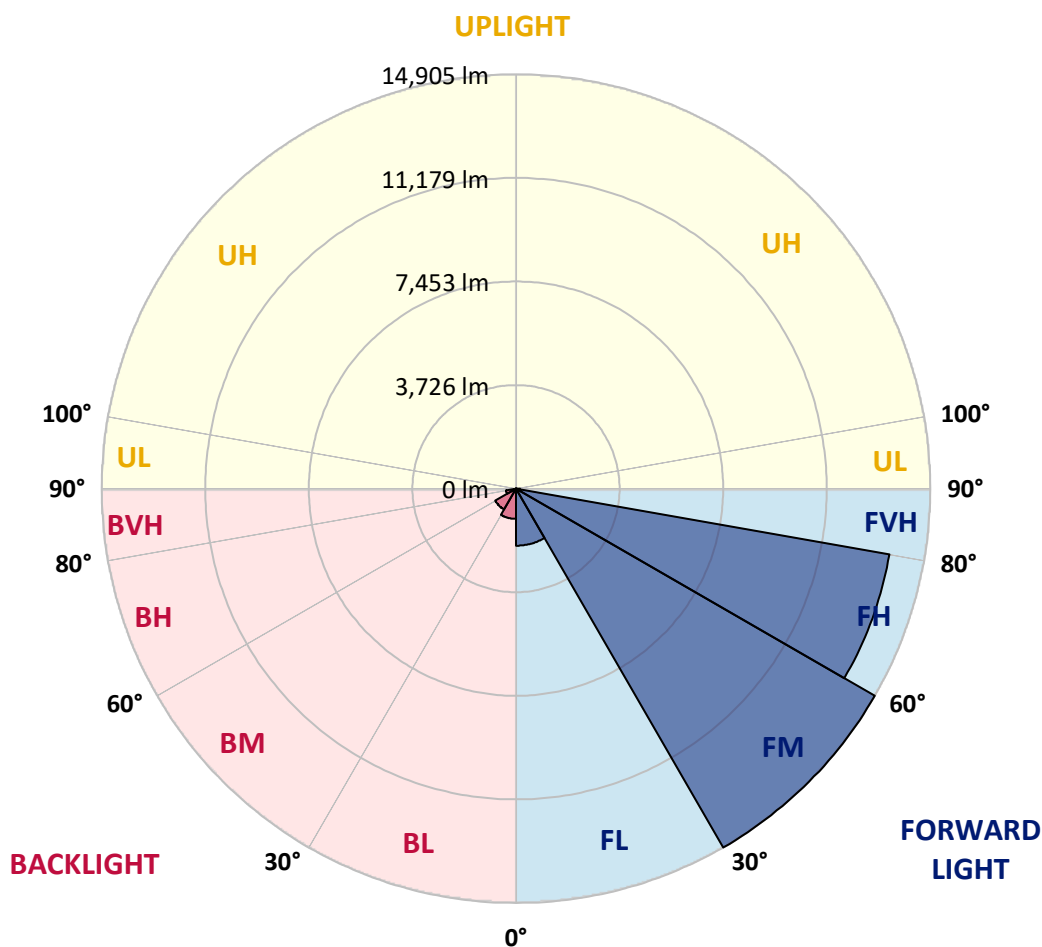


REPORT NUMBER: P482790
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.0	6.2			
FM (30°-60°)	14905.4	45.1			
FH (60°-80°)	13642.7	41.3			G5
FVH (80°-90°)	144.1	0.4			G2/225
BL (0°-30°)	1088.9	3.3	B3/2500		
BM (30°-60°)	861.7	2.6	B1/1000		
BH (60°-80°)	368.4	1.1	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





REPORT NUMBER: P482790

CATALOG NUMBER: IFLD-L-SA8C-730-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8
2.5°	4872.0	4827.1	4872.0	4937.0	4972.0	5001.9	5106.9	5196.8	5291.8	5356.7	5336.7
5°	4517.2	4602.2	4612.2	4632.2	4687.1	4867.0	4927.0	5081.9	5316.8	5336.7	5426.7
7.5°	4237.4	4212.4	4277.4	4407.3	4547.2	4652.2	4827.1	5096.9	5341.7	5426.7	5601.6
10°	3832.7	3882.6	3952.6	4082.5	4252.4	4512.2	4822.1	5121.9	5471.7	5501.6	5826.4
12.5°	3612.8	3562.8	3672.8	3807.7	4097.5	4337.4	4717.1	5076.9	5551.6	5716.5	6091.3
15°	3432.9	3457.9	3562.8	3652.8	3892.6	4197.4	4642.2	5186.8	5686.5	5801.5	6371.1
17.5°	3358.0	3343.0	3422.9	3512.9	3807.7	4152.5	4612.2	5191.8	5806.5	5956.4	6561.0
20°	3392.9	3422.9	3397.9	3482.9	3667.8	4017.5	4657.2	5286.8	5896.4	6101.3	6765.9
22.5°	3942.6	3902.6	3702.7	3542.8	3552.8	3962.6	4622.2	5346.7	5976.4	6141.3	6905.8
25°	5376.7	5161.9	4667.2	4052.5	3647.8	3812.7	4582.2	5326.8	5961.4	6166.2	6990.7
27.5°	6820.8	6636.0	6151.2	5196.8	4032.5	3752.7	4442.3	5341.7	5886.4	6076.3	6850.8
30°	8344.9	8444.8	7725.3	6591.0	5041.9	4082.5	4352.3	5261.8	5836.4	5996.3	6880.8
32.5°	9909.0	9869.0	9434.2	8205.0	6486.0	4812.1	4497.3	5341.7	5901.4	6056.3	7055.7
35°	11133.2	10993.3	10553.6	9444.2	7680.3	5911.4	4997.0	5721.5	6186.2	6371.1	7305.5
37.5°	11737.8	11797.8	11543.0	10578.5	8989.5	6930.8	5621.6	5721.5	6276.2	6491.0	7710.3
40°	12207.6	12387.4	12292.5	11982.7	10288.7	8080.1	6311.2	6076.3	6730.9	7135.6	8469.8
42.5°	12772.2	12687.3	13246.9	12962.1	11987.7	9529.2	7520.4	6920.8	7805.2	8195.0	9609.1
45°	13072.0	13396.8	13821.6	14186.3	13561.7	11338.1	9099.5	8414.9	9449.2	9943.9	11303.1
47.5°	13841.6	13971.5	14661.1	15120.8	14840.9	13406.8	11498.0	10598.5	11518.0	12297.5	13241.9
50°	14291.3	14116.4	15080.8	15780.4	15940.3	15120.8	13646.7	12947.1	13976.5	14970.9	15055.8
52.5°	13896.5	14396.2	15360.6	16614.9	17059.6	16649.8	16170.1	15865.3	16589.9	17509.3	17099.6
55°	12512.4	12852.2	15200.7	17529.3	18963.4	18773.6	19218.3	19018.4	19748.0	20722.4	19488.1
57.5°	11398.0	11822.8	13886.5	18004.0	20737.4	21297.0	21856.7	21731.7	22611.2	23735.5	21511.9
60°	10703.5	10948.3	12937.1	17884.1	21786.7	23905.4	25169.6	24290.2	25724.3	26583.8	23095.9
62.5°	9499.2	9654.1	11553.0	16295.1	22101.5	25749.3	27893.0	26698.7	27943.0	28992.3	24235.2
65°	7615.4	8035.1	9604.1	13916.5	20022.8	26089.1	29592.0	28187.8	29392.1	30081.7	24580.0
66°	6930.8	7235.6	8674.7	12657.3	18838.5	25524.4	29307.1	28497.6	29601.9	30231.6	24050.3
67.5°	5751.5	6016.3	7160.6	10863.4	16415.0	24280.2	29507.0	28287.7	29761.8	29377.1	23340.8
70°	3807.7	3977.6	4897.0	7345.5	11433.0	19862.9	27368.3	26648.7	26164.0	24719.9	18248.9
72.5°	1778.9	2023.8	3058.1	4452.3	6705.9	13896.5	22316.4	21352.0	18348.8	16040.2	11513.0
75°	804.5	914.4	1679.0	2553.4	3008.2	7200.6	14396.2	13002.1	9134.4	7585.4	5041.9
77.5°	434.7	494.7	819.5	1214.3	1094.3	2523.5	7125.7	5926.4	2878.2	2108.7	1464.1
80°	334.8	394.8	684.6	694.6	404.8	654.6	2648.4	1833.9	719.6	544.7	349.8
82.5°	174.9	249.8	539.7	449.7	204.9	264.8	819.5	509.7	224.9	179.9	149.9
85°	70.0	109.9	304.8	299.8	119.9	89.9	229.9	154.9	89.9	75.0	70.0
87.5°	5.0	5.0	164.9	114.9	75.0	25.0	35.0	35.0	45.0	40.0	50.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482790
 CATALOG NUMBER: IFLD-L-SA8C-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8	5296.8
2.5°	5426.7	5486.7	5496.6	5661.5	5696.5	5661.5	5751.5	5736.5	5776.5	5746.5	5691.5
5°	5551.6	5636.6	5801.5	5926.4	5926.4	5826.4	5746.5	5641.6	5486.7	5446.7	5416.7
7.5°	5766.5	6036.3	6186.2	6106.3	5946.4	5571.6	5051.9	4672.2	4352.3	4232.4	4177.5
10°	6146.3	6296.2	6471.1	6146.3	5481.7	4687.1	3812.7	3238.0	2788.3	2688.4	2613.4
12.5°	6391.1	6631.0	6730.9	5926.4	4622.2	3437.9	2488.5	1838.9	1524.1	1284.2	1244.2
15°	6710.9	6985.7	6780.9	5331.7	3642.8	2253.6	1289.2	804.5	654.6	614.6	614.6
17.5°	6930.8	7230.6	6576.0	4592.2	2583.4	1199.3	639.6	554.7	544.7	549.7	539.7
20°	7315.5	7495.4	6266.2	3732.7	1544.1	614.6	514.7	494.7	484.7	499.7	489.7
22.5°	7460.5	7625.3	5761.5	2703.4	694.6	409.8	384.8	369.8	379.8	374.8	369.8
25°	7450.5	7535.4	4932.0	1549.1	204.9	159.9	144.9	144.9	134.9	139.9	134.9
27.5°	7525.4	7315.5	4002.6	459.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	7565.4	6960.8	2848.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7585.4	6775.9	1833.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	7740.3	6406.1	784.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7845.2	5931.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8280.0	5781.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8844.6	5501.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9629.1	5086.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10668.5	4842.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11443.0	4457.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12427.4	4227.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13596.7	4237.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	14661.1	4167.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15205.7	3562.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15090.8	2883.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	14691.0	2263.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	14416.2	2003.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	13581.7	1604.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10808.4	1099.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6875.8	674.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3168.1	309.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	994.4	189.9	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	259.8	119.9	40.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	134.9	84.9	35.0	15.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	84.9	35.0	15.0	10.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	75.0	20.0	10.0	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)